#/O

PCT09

RAW SEQUENCE LISTING   DATE: 06/24/2002
PATENT APPLICATION: US/09/890,811A   TIME: 17:40:08

Input Set : N:\Crf3\Refhold\I890811A.raw
Output Set: N:\CRF3\06242002\I890811A.raw

ENTERED

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     1 <110> APPLICANT: Zhu, Qun
     2        Famodu, Omolayo O.
     3 <120> TITLE OF INVENTION: SPF1-Related Transcription Factors
     4 <130> FILE REFERENCE: BB1436 PCT
C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/890,811A
     6 <141> CURRENT FILING DATE: 2002-05-07
     7 <150> PRIOR APPLICATION NUMBER: 60/174325
     8 <151> PRIOR FILING DATE: 2000-01-04
     9 <160> NUMBER OF SEQ ID NOS: 14
    10 <170> SOFTWARE: Microsoft Office 97
    12 <210> SEQ ID NO: 1
    13 <211> LENGTH: 512
    14 <212> TYPE: DNA
    15 <213> ORGANISM: Zea mays
    16 <220> FEATURE:
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    18 <222> LOCATION: (368)
    19 <223> OTHER INFORMATION: n=a,c,g or t
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    42 <222> LOCATION: (453)
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    44 <220> FEATURE:
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                RAW SEQU      LISTING           D     06/24/2002
                PATENT APPLICATION:  US/09/890,811A    TIME: 17:40:08

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47 <223> OTHER INFORMATION: n=a,c,g or t
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50 <222> LOCATION: (489)..(491)
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53 <221> NAME/KEY: unsure
54 <222> LOCATION: (500)
55 <223> OTHER INFORMATION: n=a,c,g or t
56 <400> SEQUENCE: 1

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58      ttacaagtgc actcatccta attgtgaagt taaaaagcta ttagagcgtt cgcttgatgg  120
59      tcagattact gaagttgtgtt ataaagggca tcataatcat cccaagcccc aaccaaatag  180
60      aaggttagct gctggtgcag ttccttcaag ccaggctgaa gaaagatacg atggtgtggc  240
61      acctattgaa gacaaacctt caaatattta ttccaacctc tgtaaccaag cacattcagc  300
62      tggcatggtt gataatgttc cgggtccagc aagtgatgat gatgttgatg ctggaggtgg  360
63      aagacccnac cctgggggga tgactcnaat gatgatgatg acttnggnct caaaaacgca  420
64      aggaaaatgg aatctgccgg gtatncnatg ccnggcctttg antggggtaa accaaatccc  480
65      ggagccccnn nttccttttn aaaaactgtt tt                                512
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67 <210> SEQ ID NO: 2
68 <211> LENGTH: 170
69 <212> TYPE: PRT
70 <213> ORGANISM: Zea mays
71 <220> FEATURE:
72 <221> NAME/KEY: unsure
73 <222> LOCATION: (123)
74 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
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76 <221> NAME/KEY: unsure
77 <222> LOCATION: (129)
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81 <222> LOCATION: (135)..(136)
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90 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
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92 <221> NAME/KEY: unsure
93 <222> LOCATION: (154)
94 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID

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               RAW SEQU     LISTING                    D     06/24/2002
               PATENT APPLICATION:  US/09/890,811A       TIME: 17:40:08

               Input Set : N:\Crf3\Refhold\I890811A.raw
               Output Set: N:\CRF3\06242002\I890811A.raw
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 97 <222> LOCATION: (163)..(164)
 98 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
 99 <220> FEATURE:
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101 <222> LOCATION: (167)
102 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
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105        1               5                  10                  15
106       Pro Arg Ser Tyr Tyr Lys Cys Thr His Pro Asn Cys Glu Val Lys Lys
107                    20                  25                  30
108       Leu Leu Glu Arg Ser Leu Asp Gly Gln Ile Thr Glu Val Val Tyr Lys
109                35                  40                  45
110       Gly His His Asn His Pro Lys Pro Gln Pro Asn Arg Arg Leu Ala Ala
111            50                  55                  60
112       Gly Ala Val Pro Ser Ser Gln Ala Glu Glu Arg Tyr Asp Gly Val Ala
113        65                  70                  75                  80
114       Pro Ile Glu Asp Lys Pro Ser Asn Ile Tyr Ser Asn Leu Cys Asn Gln
115                    85                  90                  95
116       Ala His Ser Ala Gly Met Val Asp Asn Val Pro Gly Pro Ala Ser Asp
117               100                 105                 110
W--> 118  Asp Asp Val Asp Ala Gly Gly Gly Arg Pro Xaa Pro Gly Gly Met Thr
119            115                 120                 125
W--> 120  Xaa Met Met Met Met Thr Xaa Xaa Ser Lys Thr Gln Gly Lys Trp Asn
121            130                 135                 140
W--> 122  Leu Pro Gly Xaa Xaa Cys Xaa Ala Leu Xaa Gly Val Asn Gln Ile Pro
123       145                 150                 155                 160
W--> 124  Glu Pro Xaa Xaa Pro Phe Xaa Lys Leu Phe
125                    165                 170

127 <210> SEQ ID NO: 3
128 <211> LENGTH: 717
129 <212> TYPE: DNA
130 <213> ORGANISM: Zea mays
131 <220> FEATURE:
132 <221> NAME/KEY: unsure
133 <222> LOCATION: (11)
134 <223> OTHER INFORMATION: n=a,c,g or t
135 <220> FEATURE:
136 <221> NAME/KEY: unsure
137 <222> LOCATION: (15)
138 <223> OTHER INFORMATION: n=a,c,g or t
139 <220> FEATURE:
140 <221> NAME/KEY: unsure
141 <222> LOCATION: (610)
142 <223> OTHER INFORMATION: n=a,c,g or t
143 <220> FEATURE:
144 <221> NAME/KEY: unsure
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149 <222> LOCATION: (653)
150 <223> OTHER INFORMATION: n=a,c,g or t
151 <220> FEATURE:
152 <221> NAME/KEY: unsure
153 <222> LOCATION: (680)
154 <223> OTHER INFORMATION: n=a,c,g or t
155 <220> FEATURE:
156 <221> NAME/KEY: unsure
157 <222> LOCATION: (692)
158 <223> OTHER INFORMATION: n=a,c,g or t
159 <220> FEATURE:
160 <221> NAME/KEY: unsure
161 <222> LOCATION: (703)
162 <223> OTHER INFORMATION: n=a,c,g or t
163 <400> SEQUENCE: 3
164     gacgcacccc ntctnttctc tcccctctc gtctcgtcca gtcgtcccc tctccccac   60
165     tctacccagc tgcctgctc tgcgtcgctc gccatggcgt cctccacggg gagcttggag  120
166     cacgggggt tcacgttcac gccgccgccc ttcatcacct ccttcaccga gctgtctctc  180
167     ggcgcagggg acatgctagg agccggcgcc gatcaggagc ggtcgtcgcc gaggggctg   240
168     ttccaccgcg gcgccagggg cgtgcccaag ttcaagtcgg cgcagcctcc cagcctgccc  300
169     atctcgccgc cgcccatgtc gccttcctcc tacttcgcca tccgccgg gtcagcccc    360
170     gccgagctgc tcgactcgcc cgtcctgctc cactcgtcct ccaacatcct ggcgtctccc  420
171     accactggcg ccatcccggc gcagaggttc gactggaaga aggccgccga cctgatcgcg  480
172     tctcagtctc agcaagacgg cgacagccgg gctgccgccg ccggcttcga cgacttctcc  540
173     ttcacacggg caccttcaac gccgtgcgcg cgcacacgac gacgacgtcc ttaccttcat  600
174     gaagaagaan gtggagaggg ccctggccga cgggcgcatn aacgcaaaat cgngtacaaa  660
175     ggcgcggcac aaacaacccn aagccggttg tncacgcgcc ggnaacttaa ttccgga      717
177 <210> SEQ ID NO: 4
178 <211> LENGTH: 150
179 <212> TYPE: PRT
180 <213> ORGANISM: Zea mays
181 <400> SEQUENCE: 4
182     Met Ala Ser Ser Thr Gly Ser Leu Glu His Gly Gly Phe Thr Phe Thr
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184     Pro Pro Pro Phe Ile Thr Ser Phe Thr Glu Leu Leu Ser Gly Ala Gly
185                     20                  25                  30
186     Asp Met Leu Gly Ala Gly Ala Asp Gln Glu Arg Ser Ser Pro Arg Gly
187                 35                  40                  45
188     Leu Phe His Arg Gly Ala Arg Gly Val Pro Lys Phe Lys Ser Ala Gly
189          50                  55                  60
190     Pro Pro Ser Leu Pro Ile Ser Pro Pro Pro Met Ser Pro Ser Ser Tyr
191     65                  70                  75                  80
192     Phe Ala Ile Pro Pro Gly Leu Ser Pro Ala Glu Leu Leu Asp Ser Pro
193                     85                  90                  95
194     Val Leu Leu His Ser Ser Ser Asn Ile Leu Ala Ser Pro Thr Thr Gly
```

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                    RAW SEQU    LISTING           D      06/24/2002
                    PATENT APPLICATION:  US/09/890,811A      TIME: 17:40:08

                    Input Set : N:\Crf3\Refhold\I890811A.raw
                    Output Set: N:\CRF3\06242002\I890811A.raw
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195                 100                105                110
196     Ala Ile Pro Ala Gln Arg Phe Asp Trp Lys Lys Ala Ala Asp Leu Ile
197             115                120                125
198     Ala Ser Gln Ser Gln Gln Asp Gly Asp Ser Arg Ala Ala Ala Ala Gly
199         130                135                140
200     Phe Asp Asp Phe Ser Phe
201     145                150
203 <210> SEQ ID NO: 5
204 <211> LENGTH: 1961
205 <212> TYPE: DNA
206 <213> ORGANISM: Oryza sativa
207 <400> SEQUENCE: 5
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209     tcgctagctc gcttgcttgc tggctgagct gtggtacgct cgccatggcg tcctcgacgg   120
210     gggggttgga ccacgggttc acgttcacgc cgccgccgtt catcacgtcg ttcaccgagc   180
211     tgctgtcggg gggcggtggg gacctgctcg gcgccggcgg tgaggagcgc tcgccgaggg   240
212     ggttctccag aggcggagcg agggtgggcg gcggggtgcc caagttcaag tccgcgcagc   300
213     cgccgagcct gccgctcctcg ccgccgccgg tgtcgccgtc gtcctacttc gccatcccgc   360
214     cggggctcag cccaccgag ctgctcgact ccccgtcct cctcagctcc tcccatatct   420
215     tggcgttccc gaccaccggt gcaatccgg ctcagaggta cgactggaag gccagcgccg   480
216     atctcatcgc ttctcagcaa gatgacagcc gcggcgactt ctccttccac accaactccg   540
217     acgccatggc cgcgcaaccg gcctcttcc cttccttcaa ggagcaagag cagcaagtgg   600
218     tcgagtcgag caagaacggc gccgccgccg cgtcgagcaa caagagcggc ggcggcggga   660
219     acaacaagct ggaggacggg tacaactgga ggaagtacgg gcagaagcag gtgaagggga   720
220     gcagaaacc gaggagctac tacaagtgca cctacaacgg ctgctccatg aagaagaagg   780
221     tggagcgctc gctcgccgac ggccgcatca cccagatcgt ctacaagggc gcacacaacc   840
222     accccaagcc gctctccacc gccgcaacgc ctcttccggc tccaccgccg ccgcctgcgc   900
223     cgacgacctc gcggcgcccg gcgcgggcgc ggaccagtac tccgccgcga cgcccgagaa   960
224     ctcctccgtc acgttcggcg acgacgaggc cgacaacgca tcgcaccgca gcgagggcga  1020
225     cgagcccgaa gccaagcgct ggaaaggagg atgctgacaa gcagggcagc tccggcggca  1080
226     tgggcggcgg cgccggcggc aaccggtgc gcgagccgag gcttgtggtg cagacgctga  1140
227     gcgacatcga catcctcgac aacggcttcc ggtggaggaa gtacggccag aaggtcgtca  1200
228     agggcaaccc caacccaagg agctactaca agtgcacgac ggtgggctgc ccggtgcgga  1260
229     agcacgtgga gcgggcgtcg cacgacacgc gccgtgat caccacctac gagggcaagc  1320
230     acaaccacga cgtcccggta cggccgcggc ggcggcggcg gacgcgcccc ggcgccggcg  1380
231     tcgcctacgg ctgggggcga tccgggccga cggacgtcgc cgccgcccag caggggccct  1440
232     acaccctcga gatgctcccc aacccgcccg gcctctacgg cggctacggc gccggcgccg  1500
233     gcggcgccgc gttcccgcgc accaaggacg aggcgcggag cgacctgttc gtcgagtcgc  1560
234     tcctctgcta gtcgagccga gccgaccgca gctgagctgg gccccacatc ccctgctcg  1620
235     ccacgtggcg tattttcgcc tcgccgtata cgtacggccg tatagcgtac gtatacacgc  1680
236     tcgcacgccc tgcccaacac ggcaatacac acatacatac tctcgtacac acgtagtagc  1740
237     atacatatac agtatagtag gtggtagtgg tagctagcta gggagtgaga tccaatttgt  1800
238     tgattcgttg caggccactg ccacgtgggc cacaccggaa acagtacacg cgtatacacc  1860
239     acacttggga tacgcgtacg tacgcacatg tacacgtagt tttgtgcctt tgtaactgct  1920
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242 <210> SEQ ID NO: 6
243 <211> LENGTH: 488
244 <212> TYPE: PRT
245 <213> ORGANISM: Oryza sativa
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RAW SEQUE● LISTING ERROR SUMMARY   D   06/24/2002
PATENT APPLICATION: US/09/890,811A   TIME: 17:40:09

Input Set : N:\Crf3\Refhold\I890811A.raw
Output Set: N:\CRF3\06242002\I890811A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 368,387,405,408,445,447,453,462,489,490,491,500
Seq#:2; Xaa Pos. 123,129,135,136,148,149,151,154,163,164,167
Seq#:3; N Pos. 11,15,610,640,653,680,692,703

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:14; Line(s) 743